

IN THE SPECIFICATION

Please amend the Specification as follows:

Please amend the title to read: PEROXISOMAL ASCORBATE PEROXIDASE
GENE INDUCED BY HIGH TEMPERATURE STRESS AND A TRANSGENIC PLANT
EXHIBITING THERMOTOLERANCE

Please replace Paragraph 0011 of the Specification with the following:

[0011] Fig. 1 is a schematic view showing construction of pAPX over expression vector used to transform *Arabidopsis thaliana*.

Fig. 2 is a figure showing base sequence and deduced amino acid sequence of peroxisomal ascorbate peroxidase from [barely] barley.

Fig. 3 is a figure showing comparison of amino acid sequences of peroxisomal ascorbate peroxidase from [barely] barley, cotton and *Arabidopsis*.

Fig. 4 is a photograph showing Southern blot analysis for pAPX in [barely] barley using [barely] barley pAPX specific DNA sequence as a [prove] probe.

[Fig. 5] Figs. 5A and 5B are contained in [is] a photograph [showing] which shows Northern blot analysis for pAPX expression in [barely] barley induced by heat and other treatments using [barely] barley pAPX specific DNA sequence as a [prove] probe.

Fig. 6 is a photograph showing PCR analysis of wild-type and transgenic plants for the presence of pAPX transgene.

[Fig. 7] Figs. 7A and 7B are contained in [is] a photograph [showing] which shows Northern blot analysis of wild-type plants and *pAPX*-overexpressing transgenic plants of T2 generation.

Fig. 8 is a graph showing comparison of wild-type and transgenic *pAPX* to heat stress, using fresh weight of green part in total leaf as the index.

Fig. 9 is a photograph showing comparison of growth between wild-type and transgenic *pAPX*, after exposure to heat stress.

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